



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/506,502	02/17/2000	Albert Ren-Rui Wang	83818/0261848	6419
27498	7590	12/16/2004	EXAMINER	
PILLSBURY WINTHROP LLP			DO, THUAN V	
2475 HANOVER STREET			ART UNIT	
PALO ALTO, CA 94304-1114			PAPER NUMBER	
			2825	

DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/506,502

Applicant(s)

WANG ET AL.

Examiner

Thuan Do

Art Unit

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 8-64 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 8-64 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This non-final office action is responsive to amendment entered on 10/08/2004. Claims 1-6 and 8-64 are pending in this office action. Claim 7 is canceled.

Response to Arguments

Applicant's arguments have been considered and the new 102(e) rejection is introduced using the prior art of Gupta 6385757 in the following section.

Claim objections

Claim 1, the term "description of the user-defined register file separate from"; and Claim 49, the term "comparing results of simulations"; are unclear to what they mean. Clarification or correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

2. Claims 1-6 and 8-64 are rejected under 35 U.S.C. 102(e) as being unpatentable over Gupta et al., Pat. No. 6,385,757.

Claim 1: Gupta teaches a system comprising:

hardware generation means for, based on a configuration specification including a predetermined portion and a user-defined portion, generating a description of a

Art Unit: 2825

hardware implementation of the processor, the predetermined portion specifying a configuration of a core register, and the user defined portion specifying whether to include a user defined register file in the processor in addition to the core register file (col. 3, lines 10-20 and 48-65, col. 15, lines 1-13); and

software generation means for, based on the configuration specification, generating software development tools specific to the hardware implementation (Figure 23);

wherein the hardware generation means includes register generation means for, based on the user-defined portion of the configuration specification, generating a description of the user-defined register file separate from (input data separation) and in addition to a description of the core register file in the description of the hardware implementation of the processor (col. 15, lines 14-21); and

the software generation means is for, based on the user-defined portion, including software related to the user-defined processor register file in the software development tools (Figure 23).

Claim 39: This claim teaches similar features of claim 1 and rejected in similar manner except the hardware generation means with pipeline stalling logic and rescheduling logic (col. 4, lines 50-55 and col. 26, lines 40-45).

Claim 48: This claim teaches similar features of claim 1 and rejected in similar manner except a processor instruction raises the exception (col. 10, lines 17-29).

Claim 49: This claim teaches similar features of claim 1 and rejected in similar manner except comparing results (col. 46, lines 25-30).

The remaining claims of 102(e) section contain features similar to the rejection of claims 1,39,48 and/or 49 and rejected in rationale.

Response to Arguments

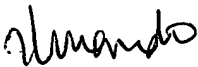
Applicant's arguments have been considered and the new search found the prior arts as resulting of above action.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan Do whose telephone number is 571-272-1891. The examiner can normally be reached on Monday-Friday 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone numbers for the organization where this application or proceeding is assigned are 703 305-3431 for regular communications and 703-305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0596.



Thuan Do
Primary examiner
12/10/04